

server processing cards, for distribution to single board computer 160 and/or throughout network 30. In another embodiment, a switch chip may be used in lieu of hub chip 166 in order to provide management network interface 49 with the ability to selectively switch and distribute network management information rather than simply broadcasting all messages received to every node coupled with management network interface 49.

6/12
A
A communications link 172 distributes data between hub chip 166 and an Ethernet connector 174. Accordingly, Ethernet connector 174 may be coupled with remote management system 70, of management network 47. In a particular embodiment, management network interface 49 may be provided without single board computer 160. In this embodiment, communication between web server processing cards 32 and remote management system 70 may be conducted according to the preceding description.

In another embodiment, single board computer 160 may be provided with management network interface 49, or management network interface 49 may be upgraded in the future to include single board computer 160. Accordingly, connectors 176 and 178 are typically provided upon management network interface card 48, to facilitate the installation of single board computer 160.

A communication link 182 couples hub chip 166 with an Ethernet connector 184 associated with single board computer 160. Accordingly, when properly installed, single board computer 160 receives all broadcast signals which are received by hub chip 166. Single board computer 160 collects, stores, calculates, analyzes and communicates this information to remote management system 70 and/or other components of high density server network 30. Communication between single board computer 160 and remote management system 70 occurs via Ethernet connector 186.

When single board computer 160 and its associated Ethernet connector 186 are present upon management network interface 49, Ethernet connector 174 is no longer required to communicate with remote management system 70. However, in the event of a failure of single board computer 160 and or its

3

associated components, including without limitation Ethernet connector 186. Ethernet connector 174 provides an alternative path of communication between management network interface 49 and remote management console 170. In an alternative embodiment, Ethernet connector 174 may be omitted from management network interface 49.

Please replace the last paragraph on page 36 with the following two paragraphs:

In the illustrated embodiment, another communications link 188 is provided in order to couple single board computer 160 and high density connector 164. Communication link 188 may include an I2C bus coupled with the serial port associated with high density connector 164. Another I2C bus may also be provided between single board computer 160 and the serial port associated with high density connector 162. As will be described later in more detail, the direct serial connection between single board computer 160 and high density connector 164 allows single board computer 160 to execute a hardware reset, software reset, or password reset upon any particular web server processing card with which high density connector 164 is coupled.

Management network interface 40 includes the ability to perform a hardware reset of any particular web server processing card. Management network interface 40 also includes the ability to perform software resets of various components of network 30. In a particular embodiment, single board computer 160 collects telemetry data regarding the use, performance and operation of many components of each web server processing card 32, which will be described later in more detail. Such data may be stored within single board computer 160 and/or forwarded to remote management system 70, for further processing.